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June 11, 2019

BY EMAIL AND REGULAR U.S. MAIL

Timothy Begley
U.S. Food and Drug Administration
Center for Food Safety and Applied Nutrition
Outreach and Information Center
5001 Campus Drive, HFS-009
College Park, MD 20740-3835

Re: PFAS in US Food Supply

Dear Mr. Begley:

Within the last week, information has become available to the public confirming detections of certain PFAS in foods found within the US as a result of recent FDA testing. Please confirm the extent to which FDA was aware of the data collected on behalf of the 3M Company in 2001 that confirmed elevated levels of PFAS in the US food supply, including the following found in food¹ from six different US cities:

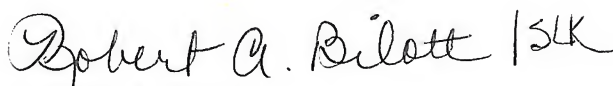
- 14,700 ppt PFOA in Bread (Cleveland, TN)
- 2,350 ppt PFOA in Apples (Decatur, AL)
- 1,130 ppt PFOA in Apples (Pensacola, FL)
- 1,090 ppt PFOA in Ground Beef (Port St. Lucie, FL)
- 852 ppt PFOS in Milk (Pensacola, FL)
- 693 ppt PFOS in Milk (Columbus, GA)

¹ Note that, at the time, the lowest level the analytical laboratory being used could quantify the PFAS in the food was 500 ppt, so any results below 500 ppt were reported as "NQ" (not quantifiable). A copy of the text of the report is attached (without the lengthy appendices).

- 587 ppt PFOS in Ground Beef (Mobile, AL)
- 573 ppt PFOS in Milk (Cleveland, TN)
- 543 ppt PFOA in Green Beans (Mobile, AL)
- 524 ppt PFOA in Bread (Pensacola, FL)
- 504 ppt PFOA in Ground Beef (Port St. Lucie, FL)

Please also confirm the extent to which FDA (or any other agency) has assessed the impact of the American public having been exposed to such levels of PFAS in food for such an extended period of time, without their knowledge.

Very truly yours,


Robert A. Bilott

Encl.

SUMMARY OF ANALYTICAL RESULTS: MULTI-CITY FOOD STUDY

The Multi-City Study was originally designed by Battelle Memorial Institute (Columbus, OH), to obtain preliminary data about the presence of fluorochemicals in foods and in drinking water to understand the potential sources of human exposure. The Multi-City Study paired each of three cities having manufacturing or commercial use of fluorochemical products (test cities) with three cities that do not (control cities).

Information on residues in selected foods was obtained from analyses of food samples collected in a market basket study. The market basket sampling of the original Multi-City Study design was implemented by Pace Analytical Services, Inc., Minneapolis, MN. The samples were analyzed for PFOS, PFOA, and FOSA by Centre Analytical Laboratories, Inc., State College, PA.

The distributions of the PFOS, PFOA, and FOSA residue data by food and city category reveal similar patterns of residue concentrations in the control and test cities for each type of food. A total of 12 samples were found to contain levels of fluorochemical residues above the limit of quantification. Of the 12 samples with measurable fluorochemical residue levels, eight were samples collected in test cities.

Measurable quantities of PFOS were found in five samples: four whole milk samples (three from test cities) and a ground beef sample (test city). PFOS residues found in the foods ranged from non-quantifiable levels to 0.852 ng/g.

Measurable quantities of PFOA were found in seven samples: two ground beef samples (neither from test cities); two bread samples (one from a test city); two apple samples (both from test cities); and one green bean sample (from a test city). PFOA residue levels ranged from non-quantifiable levels to 2.35 ng/g. A value of 14.7 ng/g was found for PFOA in a bread sample from a control city, but was considered "suspect" by Centre Analytical.

ANALYTICAL REPORT

STUDY TITLE

Analysis of PFOS, FOSA and PFOA From Various Food Matrices Using HPLC
Electrospray/Mass Spectrometry

DATA REQUIREMENTS

EPA TSCA Good Laboratory Practice Standards 40 CFR 792

STUDY DIRECTOR

Karen Smith, Centre

SPONSOR REPRESENTATIVE

Susan A. Beach, 3M

ANALYTICAL REPORT COMPLETION DATE

June 21, 2001

PERFORMING LABORATORY / TESTING FACILITY

Centre Analytical Laboratories, Inc. (Centre)
3048 Research Drive
State College, PA 16801
Phone: 814-231-8032

STUDY SPONSOR

3M Environmental Technology and Safety Services
Building 2-3E-09
PO Box 33331
St. Paul, MN 55133-3331

PROJECT IDENTIFICATION

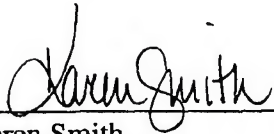
Centre Protocol Number: 00P-023-057
Centre Study Number: 023-057

Total Pages: 151

GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

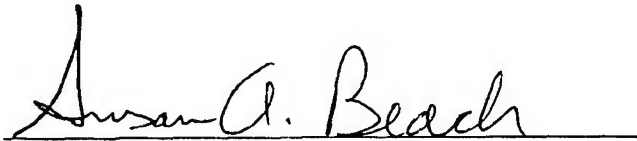
Centre Study Number 023-057, entitled "Analysis of PFOS, FOSA and PFOA From Various Food Matrices Using HPLC Electrospray/Mass Spectrometry," conducted for 3M Environmental Technology and Safety Services, was performed in compliance with EPA TSCA Good Laboratory Practice Standards (40 CFR, Part 792) by Centre Analytical Laboratories, Inc. with the following exceptions:

1. The FOSA reference substance (analytical standard) used in this study has not been characterized under GLP's. §792.105(a).
2. Specimen (egg sample) identification for three samples was not according to 792.130(c) because the labels became removed from the containers.



Karen Smith
Study Director
Centre Analytical Laboratories, Inc.

06/21/01
Date



Susan A. Beach
Sponsor Representative
3M Environmental Technology and Safety Services

6/22/01
Date

QUALITY ASSURANCE STATEMENT

Centre Analytical Laboratories' Quality Assurance Unit reviewed Centre Study Number 023-057, entitled, "Analysis of PFOS, FOSA and PFOA From Various Food Matrices Using HPLC Electrospray/Mass Spectrometry". All phases were reviewed for conduct according to Centre Analytical Laboratories' Standard Operating Procedures, the Study Protocol, and all applicable Good Laboratory Practice Standards. All findings were reported to the Study Director and to management.

<u>Phase</u>	<u>Date Inspected</u>	<u>Date Reported to Study Director*</u>	<u>Date Reported to Centre Management</u>	<u>Date Reported to Sponsor Management</u>
1. Protocol Review	02/14/01	03/23/01	02/26/01	03/23/01
2. Extraction and Fortification	02/14/01	03/23/01	02/26/01	03/23/01
3. Raw Data and Draft Report Review	04/10-13/01	05/21/01	06/04/01	06/15/01
4. Raw Data and Draft Report Review	05/30/01	06/01/01	06/04/01	06/15/01
5. Final Report Review	06/19/01	06/20/01	06/21/01	06/21/01

*The Study Director resided at the sponsor until 05/01/01 at which time a protocol amendment transferred Study Director duties to Centre Analytical Laboratories.

Naomi Lovallo
Naomi Lovallo
Senior Quality Assurance Auditor

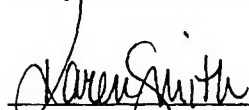
6/21/01
Date

CERTIFICATION OF AUTHENTICITY

This report, for Centre Study Number 023-057, is a true and complete representation of the raw data for the study.

Submitted by: Centre Analytical Laboratories, Inc.
3048 Research Drive
State College, PA 16801
(814) 231-8032

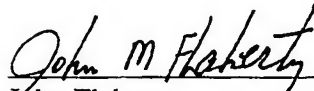
Study Director, Centre:



Karen Smith
Study Director
Centre Analytical Laboratories, Inc.

06/21/01
Date

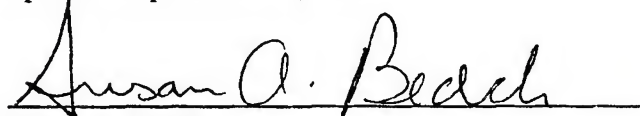
Centre Analytical Laboratories, Inc. Facility Management:



John Flaherty
Laboratory Manager
Centre Analytical Laboratories, Inc.

6/21/01
Date

Sponsor Representative, 3M



Susan A. Beach
3M Environmental Technology and Safety Services

6/22/01
Date

STUDY IDENTIFICATION

Analysis of PFOS, FOSA and PFOA From Various Food Matrices Using HPLC
Electrospray/Mass Spectrometry

CENTRE PROTOCOL NUMBER: 00P-023-057

TYPE OF STUDY: Residue

TEST SYSTEM: Green beans, apples, pork muscle, cow milk,
chicken muscle, chicken eggs, bread, hot dogs,
catfish and ground beef

TEST MATERIAL: PFOS, FOSA and PFOA

SPONSOR: 3M Environmental Technology and Safety Services
Building 2-3E-09
PO Box 33331
St. Paul, MN 55133-3331

STUDY DIRECTOR: Karen Smith
Centre Analytical Laboratories, Inc.
Phone: (814) 231-8032

TESTING FACILITY: Centre Analytical Laboratories, Inc.
3048 Research Drive
State College, PA 16801

ANALYTICAL PHASE	Study Initiation Date:	01/09/01
TIMETABLE:	Analytical Start Date:	01/11/01
	Analytical Termination Date:	05/22/01

PROJECT PERSONNEL

The Study Director for this project at Centre Analytical Laboratories, Inc. was Karen Smith. The following personnel from Centre Analytical Laboratories, Inc., were associated with various phases of the study:

<u>Name</u>	<u>Title</u>
Karen Smith	Scientist
Emily Stauffer	Scientist
Angela Morgan	Technician
Tiffany Proctor	Technician
Rickey Keller	Sample Custodian
Lawrence Ord	Sample Custodian
Dave Bell	Scientist
Sharareh Zolghadr	Technician
Jason Farabaugh	Scientist
Mitra Arjmand	Technician
Yu Qiong Tan	Technician
Ling Ling Liu	Technician
Xiaoming Zhu	Technician

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1.0 SUMMARY

The purpose of this study was to analyze residues of PFOS, FOSA and PFOA in various food matrices as specified in Centre Protocol 00P-023-057. The analytical method used for this study was entitled, "Method of Analysis for the Determination of Fluorochemicals in Green Beans, Apples, Pork Muscle, Cow Milk, Chicken Muscle, Chicken Eggs, Bread, Hot Dogs, and Catfish by LC/MS/MS."

The limit of quantification for PFOS, FOSA and PFOA in food was 0.5 ppb (ng/g).

Average fortification recoveries and relative standard deviations were 101% \pm 9.0% for PFOS, 96% \pm 13% for FOSA and 104% \pm 14% for PFOA.

Residues ranging from non-quantifiable levels to 0.852 ppb (ng/g) for PFOS, non-quantifiable levels for FOSA, and non-quantifiable to 2.35 ng/g for PFOA (one value of 14.7 ppb (ng/g) was found for PFOA but was considered suspect) were found in the food samples.

2.0 OBJECTIVE

The objective of this study was to determine levels of PFOS, FOSA and PFOA in food samples collected from local grocery stores from six test cities outlined in 3M Quality Assurance Project Plan for Empirical Human Exposure Assessment Multi-City Study Sampling Task using the analytical method entitled "Method of Analysis for the Determination of Fluorochemicals in Green Beans, Apples, Pork Muscle, Cow Milk, Chicken Muscle, Chicken Eggs, Bread, Hot Dogs, and Catfish by LC/MS/MS."

3.0 INTRODUCTION

This report details the results of the residues of PFOS, FOSA and PFOA detected in green beans, apples, pork muscle, cow milk, chicken muscle, chicken eggs, bread, hot dogs, catfish and ground beef, using the analytical method entitled, "Method of Analysis for the Determination of Fluorochemicals in Green Beans, Apples, Pork Muscle, Cow Milk, Chicken Muscle, Chicken Eggs, Bread, Hot Dogs, and Catfish by LC/MS/MS." Complete details of the analytical methodology can be found in **Appendix A**.

The study was initiated on January 09, 2001, when the study director signed the protocol 00P-023-057. The complete protocol and amendments can be found in **Appendix A**. The analytical start date was January 11, 2001, and the analytical termination date was May 22, 2001.

4.0 TEST SYSTEM

The food samples analyzed in this study were received frozen from Pace Analytical on December 09, 2000 and stored frozen ($<-10^{\circ}\text{C}$) upon receipt. Pace Analytical collected the samples for 3M Environmental Laboratory. The samples were then logged in on December 18, 2000 by Centre personnel and transferred to different frozen storage locale. All of the samples were processed according to the method, "Method of Analysis for the Determination of Fluorochemicals in Green Beans, Apples, Pork Muscle, Cow Milk, Chicken Muscle, Chicken Eggs, Bread, Hot Dogs, and Catfish by LC/MS/MS." Exact details of processing can be found on page 91 of this report. After processing, the samples were stored in a freezer at a temperature of -10°C or below until used and placed back into a freezer immediately after use.

At the request of the sponsor, the egg samples were returned frozen to 3M Environmental Laboratory on February 26, 2001 for possible reanalysis. The egg samples were returned unanalyzed from 3M Environmental Laboratory to Centre Analytical Laboratories, Inc. These samples were received frozen from 3M Environmental Laboratory on May 03, 2001 for PFOS and PFOA re-extraction and analysis. They were assigned different 3M and Centre ID's.

The food samples used for the controls and matrix spikes were the same samples used in the method validation study (Centre Study No. 023-043). They were purchased from Giant, Store #111 in State College, PA and assigned the following sample IDs upon log in at Centre:

Centre Sample ID	Sample Description
0009341	Chicken Muscle
0009342	Chicken Eggs
0009343	White Bread
0009344	Hot Dogs
0009345	Catfish
0009346	Green Beans
0009347	Apples
0009348	Pork Muscle
0009349	Whole Milk
0100006	Ground Beef

All of the control samples were purchased on September 27, 2000 except for the ground beef, which was purchased on January 03, 2001. The samples were stored in a refrigerator ($4^{\circ} \pm 2^{\circ}\text{C}$) until processed. All of these control samples were processed with dry ice in a Hobart food chopper on October 02, 2000 except for the ground beef, which was processed on January 03, 2001. After processing, the samples were stored in a freezer at a temperature of -10°C or below until used and placed back into a freezer immediately after use.

Sample login and chain of custody information can be found in the raw data package associated with this study. Storage records will be kept at Centre Analytical Laboratories, Inc. and a true copy of the storage records can be found in the raw data package associated with this study.

5.0 REFERENCE MATERIAL

PFOS was received at Centre on June 05, 2000, FOSA was received on February 15, 2000 and PFOA was received on July 06, 2000 from 3M Environmental Technology and Services. Characterization of the reference materials PFOS and PFOA was performed at Centre on August 31, 2000 and November 06, 2000, respectively, and documentation can be found in raw data package associated with this report. The characterization of FOSA is in progress and the necessary information will be added upon complete characterization of the reference materials. All analyses were completed prior to standard expiration dates.

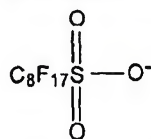
The available information for the reference material is listed below. FOSA was stored at room temperature and PFOS and PFOA were stored frozen at $\leq -10^{\circ}\text{C}$.

<u>Compound</u>	<u>TCR Substance No.</u>	<u>Batch No.</u>	<u>Purity (%)</u>	<u>Expiration Date</u>
PFOS	TCR00017-46	NA	97.9	08/31/01
FOSA	SD-029	L-15709	95.1	02/15/01
PFOA	TCR99030-30	332	95.0	10/31/01

Molecular structures of PFOS, FOSA and PFOA are given below.

PFOS

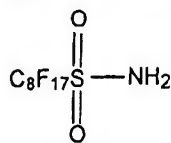
Chemical Name = Perfluorooctane sulfonate
Molecular weight = 499 ($\text{C}_8\text{F}_{17}\text{SO}_3^-$)



Note: The neutral molecule and standard form which PFOS (anion) is derived from is potassium perfluorooctane sulfonate [$\text{C}_8\text{F}_{17}\text{SO}_3\text{K}$], molecular weight 538.

FOSA

Chemical Name = Perfluorooctane sulfonylamide
Molecular weight = 499



PFOA

Chemical Name = Perfluorooctanoate
Molecular weight = 413

$C_7F_{15}COO^-$

Note: The neutral molecule and standard form which PFOA (anion) is derived from is ammonium perfluorooctanoate [$C_7F_{15}COONH_4$], molecular weight 431.

6.0 EXPERIMENTAL DESIGN

Each sample was extracted in duplicate. A set contained one matrix blank and two matrix blanks spiked with known amounts of PFOS, FOSA and PFOA and 6 – 10 samples. The re-extracted egg sets also included one reagent blank.

The extracts were analyzed by LC/MS/MS. Samples with residues below the linear range of the calibration curve were not quantified; however, residues in the control samples were calculated up to 20% of the LOQ by extrapolation of the calibration curve, in order to correct fortification recoveries.

7.0 DESCRIPTION OF ANALYTICAL METHOD

Analytical method entitled “Method of Analysis for the Determination of Fluorochemicals in Green Beans, Apples, Pork Muscle, Cow Milk, Chicken Muscle, Chicken Eggs, Bread, Hot Dogs, and Catfish by LC/MS/MS” was used for this study.

7.1 Extraction Procedure

Five grams of processed sample were weighed into 50 mL polypropylene centrifuge tubes and fortified (if necessary). The samples were extracted with ACN followed by a SPE column (florisil, silica gel, carbon and LC-NH₂) clean up. The column eluate was collected and concentrated to near dryness. Final volume was adjusted to 2 mL with 2% ascorbic acid in methanol. The samples were analyzed using electrospray LC/MS/MS.

7.2 Preparation of Standards and Fortification Solutions

Standard stock solutions of PFOS, PFOA and FOSA were prepared on September 18, 2000, September 26, 2000 and October 03, 2000, respectively. Fortification and calibration standard solutions were prepared on October 17, 2000 as specified in Centre Analytical Laboratories’ analytical method entitled, “Method of Analysis for the Determination of Fluorochemicals in Green Beans, Apples, Pork Muscle, Cow Milk,

Chicken Muscle, Chicken Eggs, Bread, Hotdogs, and Catfish by LC/MS/MS.” Individual stock standard solutions of PFOS, FOSA and PFOA were prepared at concentrations of 100 µg/mL by taking 10 mg of the standard (corrected for purity and salt content where applicable) and bringing it up to 100 mL with methanol. From these solutions, a 1 µg/mL mixed fortification standard solution was prepared by taking 1 mL of each stock and bringing the volume up to 100 mL with methanol.

The 1 µg/mL mixed fortification standard was diluted ten-fold with methanol to make the 0.1 µg/mL mixed fortification standard. Then, the 0.1 µg/mL mixed standard was diluted ten-fold with methanol to make the 0.01 µg/mL fortification standard.

LC/MS/MS calibration standards were prepared in methanol at the following concentrations 50, 25, 10, 5.0, 2.5, 1.0, and 0.5 ng/mL according to the following table:

Initial Concentration (ng/mL)	Volume (mL)	Diluted to (mL)	Final concentration (ng/mL)
1000	5.0	100	50
1000	2.5	100	25
1000	1.0	100	10
50	10.0	100	5.0
25	10.0	100	2.5
10	10.0	100	1.0
5.0	10.0	100	0.5

New standard stock, fortification and calibration solutions were made for PFOS and PFOA in order to perform the egg re-extraction and analysis. The PFOS standard stock solution was prepared on March 14, 2001 and the PFOA standard stock solution was prepared on April 11, 2001. Mixed fortification and calibration solutions of PFOS and PFOA were prepared from the stock solutions on May 03, 2001 as described above. The only modification from the above procedure is that FOSA was omitted from the mix since the re-extraction and analysis was for PFOS and PFOA only.

The stock standard solution and all fortification and calibration standard solutions were stored in a refrigerator ($4^{\circ} \pm 2^{\circ}\text{C}$) when not in use. Documentation of standard preparation can be found in the raw data associated with this report.

7.3 Chromatography

Quantification of PFOS, FOSA and PFOA was accomplished by LC/MS/MS analysis using electrospray LC/MS/MS.

The retention times of PFOS, FOSA and PFOA were ~ 5.4 min, ~ 6.0 min and ~ 5.3 min., respectively. The matrices did not contribute any interfering peaks corresponding to the

analyte retention times; however, there were some occasions where the control matrices appeared to contain analyte.

7.4 Instrument Sensitivity

The smallest standard amount injected during the chromatographic run was 0.5 ng/mL which is equivalent to 0.2 ng/g of PFOS, FOSA and PFOA in matrix.

7.5 Description of Instrument and Operating Conditions

A Micromass Quattro Ultima LC/MS/MS coupled to a Hewlett Packard HPLC system was used. Data acquisition and processing were performed using Masslynx 3.4 software. Detailed operating conditions are listed below:

Instrument: Micromass Quattro Ultima

ELECTROSPRAY ION SOURCE:

Capillary: 2.0 kV	Hexapole 2: 0 V
Hexapole 1: 0 V	Source Block Temp.: 100°C
Aperture 1: 0 V	Desolvation Temp.: 400°C

ANALYZER:

LM Res 1: 10.5 V	LM Res 2: 12.0 V
HM Res 1: 10.5 V	HM Res 2: 12.0 V
IEnergy 1: 1.0 V	IEnergy 2: 2.0 V
Entrance: -2 V	Multiplier: 650 V
Exit: 2 V	

GAS FLOWS AND PRESSURE:

Desolvation N₂ Flow Rate: ~700 L/hr
Nebuliser N₂ Flow Rate: ~150 L/hr
Gas Cell Pressure: ~0.0031 mbar

Computer: COMPAQ Professional Workstation AP200

Software: Microsoft Windows NT: Version 4 Build 1381: Service Pack 5
Micromass Limited: Masslynx 3.4 Build 004

HPLC Equipment: Hewlett Packard (HP) Series 1100
HP Binary Pump
HP Autosampler
HP Vacuum Degasser
HP Column Oven

HPLC Column: Genesis C-8, 5 cm x 2.1 mm i.d. x 4 µ

Column Temperature: 35°C

Mobile Phase (A): 2 mM Ammonium Acetate in Type I Water

Mobile Phase (B) : Methanol

Time (min)	% A	% B	Flow Rate (mL/min)
0.0	60.0	40.0	0.3
0.4	60.0	40.0	0.3
1.0	10.0	90.0	0.3
7.0	10.0	90.0	0.3
7.5	0.0	100.0	0.3
9.0	0.0	100.0	0.4
9.5	60.0	40.0	0.4
13.5	60.0	40.0	0.4
14.0	60.0	40.0	0.3
Total run time = 14 min			

Injected Volume: 15 µL

Ions monitored :

Analyte	Parent ion	Daughter ion	Dwell (secs)	Coll Energy (eV)	Cone (V)
PFOA	413	369	0.2	10	30
FOSA	498	78	0.2	40	30
PFOS	499	99	0.2	50	30

7.6 Quantitation and Example Calculation

Fifteen microliters of sample or calibration standard was injected into the LC/MS/MS. The peak area was measured and the standard curve was generated (using 1/x weighted linear regression) by Masslynx software using seven concentrations of standards. The residue concentration in food samples was determined using the following equations:

Equation 1 was used to calculate the amount of analyte found (in ng/mL, based on peak area) using the standard curve (linear regression parameters) generated by the Masslynx software program.

Equation 1:

$$\text{Analyte found (ng/mL)} = \frac{(\text{Peak area} - \text{intercept})}{\text{slope}}$$

The component residue concentration (in ng/g) in matrix was determined by using Equation 2.

Equation 2:

Analyte found (ng/g) =

$$\frac{[\text{analyte found (ng/mL)} - \text{average analyte found in blanks (ng/mL)}] \times \text{DF} \times \text{FV (mL)}}{\text{sample weight (g)}}$$

where DF = dilution factor and FV = final volume

Note: the process of subtracting the average analyte found in the blanks was done only for control matrix spikes or if a reagent blank contained residue.

For samples fortified with known amounts of analytes prior to extraction, Equation 3 was used to calculate the percent recovery.

Equation 3:

$$\text{Recovery (\%)} = \frac{\text{analyte found (ng/g)}}{\text{analyte added (ng/g)}} \times 100$$

An example of a calculation using an actual sample follows:

Pork sample Centre ID 0009348 Spk A1 (Set No.: 011501A Pork), fortified at 2.5 ng/g of PFOS, FOSA and PFOA: (Calculation is using values from FOSA)

Where:

peak area	=	149454
intercept	=	2524.48
slope	=	25194.9
final volume	=	2 mL
dilution factor	=	1
sample weight	=	5 g
ng/g added (fort level)	=	2.5 ng/g
amt found in control	=	0 (NQ = Not quantifiable; assumed to be 0)

From equation 1:

$$\begin{aligned} \text{Analyte found (ng/mL)} &= \frac{[149484 - 2524.48]}{25194.9} \\ &= 5.83 \text{ ng/mL} \end{aligned}$$

From equation 2:

$$\begin{aligned}\text{Analyte found (ng/g)} &= \frac{(5.832 - 0) \times 1 \times 2}{5.0} \\ &= 2.33 \text{ ng/g}\end{aligned}$$

From equation 3:

$$\begin{aligned}\% \text{ Recovery} &= \frac{2.33}{2.5} \times 100 \\ &= 93\%\end{aligned}$$

Note: This example calculation was done using rounded numbers, and therefore may be slightly different from the values shown in the RAW DATA.

Any residues found for PFOA were adjusted for PFOA purity (95%). This was done by taking the residue found (ng/g) for PFOA and multiplying by the purity (0.95).

Other statistical methods used in analyzing this data were:

$$\text{Standard Deviation} = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}} \qquad \text{Mean} = \bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

Relative Standard Deviation (RSD or Coefficient of Variation (CV)) =

$$\frac{\text{Standard Deviation} \times 100\%}{\text{Mean}}$$

8.0 RESULTS AND DISCUSSION

Average fortification recoveries and relative standard deviations were 101% ± 9.0% for PFOS, 96% ± 13% for FOSA and 104% ± 14% for PFOA. A summary of all of the fortification recoveries can be found in **Table I**.

Residues ranging from non-quantifiable levels to 0.852 ppb (ng/g) for PFOS, non-quantifiable levels for FOSA, and non-quantifiable to 2.35 ng/g for PFOA (one value of 14.7 ppb (ng/g) was found for PFOA but was considered suspect) were found in the food samples. The residues found in all of the samples are detailed in **Table II**.

Typical calibration curves and chromatograms representing standards, controls, fortifications, and samples are depicted in **Figures 1-23**.

In this study, analytes were not quantified below 0.5 ng/g. If lower detection levels are required, a more definitive study, including extraction blanks in addition to matrix blanks, could be done.

Initially the PFOA standard and fortification solutions were not corrected for purity, as purity information had not been received at the time. Purity data was received after residue analyses were completed and the residues found were then corrected for PFOA purity. All ng/g residues of PFOA in this report have been adjusted to reflect the purity of the PFOA used in this study.

There was some PFOA contamination from the lab while performing the extraction for eggs. It was believed to be coming from the extraction solvent itself. Using a different brand and lot number of ACN alleviated the problem because upon reanalysis, there were no quantifiable residues of PFOA in the egg samples.

9.0 CIRCUMSTANCES THAT MAY HAVE AFFECTED THE DATA

There were no circumstances that may have affected the quality or integrity of the data.

10.0 RETENTION OF DATA AND SAMPLES

When the final report is complete, all original paper data generated by Centre Analytical Laboratories, Inc. will be shipped to the sponsor. This does not include facility-specific raw data such as instrument logs, however exact copies of temperature logs will be submitted. Exact copies of all raw data, as well as a signed copy of the final analytical report and all original facility-specific raw data, will be retained in the Centre Analytical Laboratories, Inc. archives for the period of time specified in 40 CFR 792.195 (b). Retained samples of reference substances are archived by the sponsor.

11.0 TABLES

Table I. Summary of PFOS, FOSA and PFOA Fortification Recoveries

Centre ID	Sample Description	Extraction	Analysis	Fort Level (ng/g)	Recovery (%)		
		Date	Date		PFOS	FOSA	PFOA
0009341 Spk A1	Chicken	01/11/01	01/11-12/01	2.5	104	93	94
0009341 Spk B1	Chicken	01/11/01	01/11-12/01	10	89	84	87
0009341 Spk A2	Chicken	01/11/01	01/12/01	2.5	110	94	98
0009341 Spk B2	Chicken	01/11/01	01/12/01	10	91	89	91
0009341 Spk A3	Chicken	01/12/01	01/15/01	2.5	108	107	106
0009341 Spk B3	Chicken	01/12/01	01/15/01	10	106	105	111
0009341 Spk A4	Chicken	01/12/01	01/15/01	2.5	106	105	107
0009341 Spk B4	Chicken	01/12/01	01/15/01	10	97	90	98
0009348 Spk A1	Pork	01/15/01	01/15-16/01	2.5	105	93	116
0009348 Spk B1	Pork	01/15/01	01/15-16/01	10	99	86	110
0009348 Spk A2	Pork	01/15/01	01/16/01	2.5	98	87	105
0009348 Spk B2	Pork	01/15/01	01/16/01	10	84	76	95
0009348 Spk A3	Pork	01/16/01	01/16/01	2.5	98	93	106
0009348 Spk B3	Pork	01/16/01	01/16/01	10	81	78	91
0009348 Spk A4	Pork	01/16/01	01/16-17/01	2.5	90	86	93
0009348 Spk B4	Pork	01/16/01	01/16-17/01	10	82	79	92
0009344 Spk A1	Hot Dog	01/17/01	01/17-18/01	2.5	102	100	*
0009344 Spk B1	Hot Dog	01/17/01	01/17-18/01	10	95	92	*
0009344 Spk A1	Hot Dog	01/17/01	01/18/01	2.5	-	-	97
0009344 Spk B1	Hot Dog	01/17/01	01/18/01	10	-	-	95
0009344 Spk A2	Hot Dog	01/17/01	01/18/01	2.5	113	106	114
0009344 Spk B2	Hot Dog	01/17/01	01/18/01	10	95	91	87
0009344 Spk A3	Hot Dog	01/18/01	01/18-19/01	2.5	99	94	102
0009344 Spk B3	Hot Dog	01/18/01	01/18-19/01	10	89	77	89
0009344 Spk A4	Hot Dog	01/18/01	01/19/01	2.5	104	95	96
0009344 Spk B4	Hot Dog	01/18/01	01/19/01	10	91	84	84
0009345 Spk A1	Fish	01/19/01	01/19-20/01	2.5	100	68	105
0009345 Spk B1	Fish	01/19/01	01/19-20/01	10	87	56	87
0009345 Spk A2	Fish	01/19/01	01/20/01	2.5	86	*	85
0009345 Spk B2	Fish	01/19/01	01/20/01	10	86	*	86
0009345 Spk A2	Fish	01/30/01	01/31/01	2.5	-	126	-
0009345 Spk B2	Fish	01/30/01	01/31/01	10	-	110	-
0009345 Spk A3	Fish	01/22/01	01/22-23/01	2.5	111	76	111
0009345 Spk B3	Fish	01/22/01	01/22-23/01	10	95	65	101
0009345 Spk A4	Fish	01/22/01	01/23/01	2.5	106	73	103
0009345 Spk B4	Fish	01/22/01	01/23/01	10	89	62	89

* = Rejected due to an unacceptable recovery. Replaced with re-extracted data.
- = Not Analyzed For

Table I continued: Summary of PFOS, FOSA and PFOA Fortification Recoveries

Centre ID	Sample Description	Extraction	Analysis	Fort Level (ng/g)	Recovery (%)		
		Date	Date		PFOS	FOSA	PFOA
0009342 Spk A1	Egg	01/23/01	01/23-24/01	2.5	104	96	84
0009342 Spk B1	Egg	01/23/01	01/23-24/01	10	98	80	67
0009342 Spk A2	Egg	01/23/01	01/24/01	2.5	117	106	78
0009342 Spk B2	Egg	01/23/01	01/24/01	10	101	98	77
0009342 Spk A3	Egg	01/24/01	01/24-25/01	2.5	115	109	105
0009342 Spk B3	Egg	01/24/01	01/24-25/01	10	92	90	85
0009342 Spk A4	Egg	01/24/01	01/25/01	2.5	117	111	90
0009342 Spk B4	Egg	01/24/01	01/25/01	10	102	97	82
0009346 Spk A1	Green Bean	02/05/01	02/05/01	2.5	98	114	129
0009346 Spk B1	Green Bean	02/05/01	02/05/01	10	106	106	128
0009346 Spk A2	Green Bean	02/06/01	02/07/01	2.5	92	99	124
0009346 Spk B2	Green Bean	02/06/01	02/07/01	10	111	103	130
0009346 Spk A3	Green Bean	02/08/01	02/09/01	2.5	99	100	125
0009346 Spk B3	Green Bean	02/08/01	02/09/01	10	94	97	125
0009346 Spk A4	Green Bean	02/08/01	02/12/01	2.5	83	85	103
0009346 Spk B4	Green Bean	02/08/01	02/12/01	10	96	95	112
0009349 Spk A1	Milk	02/07/01	02/09-10/01	2.5	99	103	129
0009349 Spk B1	Milk	02/07/01	02/09-10/01	10	91	90	128
0009349 Spk A2	Milk	02/07/01	02/10/01	2.5	114	101	123
0009349 Spk B2	Milk	02/07/01	02/10/01	10	90	91	123
0009349 Spk A3	Milk	02/08/01	02/10/01	2.5	101	103	126
0009349 Spk B3	Milk	02/08/01	02/10/01	10	89	91	129
0009349 Spk A4	Milk	02/08/01	02/10-11/01	2.5	113	103	124
0009349 Spk B4	Milk	02/08/01	02/10-11/01	10	93	94	123
0009347 Spk A1	Apple	02/09/01	02/12/01	2.5	113	110	122
0009347 Spk B1	Apple	02/09/01	02/12/01	10	105	104	119
0009347 Spk A2	Apple	02/12/01	02/13/01	2.5	111	107	108
0009347 Spk B2	Apple	02/12/01	02/13/01	10	100	102	101
0009347 Spk A3	Apple	02/12/01	02/13-14/01	2.5	109	105	110
0009347 Spk B3	Apple	02/12/01	02/13-14/01	10	98	96	100
0009347 Spk A4	Apple	02/12/01	02/14/01	2.5	108	101	102
0009347 Spk B4	Apple	02/12/01	02/14/01	10	99	96	99

Table I continued: Summary of PFOS, FOSA and PFOA Fortification Recoveries

Centre ID	Sample Description	Extraction	Analysis	Fort Level (ng/g)	Recovery (%)		
		Date	Date		PFOS	FOSA	PFOA
0009343 Spk A1	Bread	02/08-09/01	02/11/01	2.5	87	106	118
0009343 Spk B1	Bread	02/08-09/01	02/11/01	10	96	96	109
0009343 Spk A2	Bread	02/08-09/01	02/11/01	2.5	106	101	119
0009343 Spk B2	Bread	02/08-09/01	02/11/01	10	94	93	106
0009343 Spk A3	Bread	02/12-13/01	02/14/01	2.5	106	103	103
0009343 Spk B3	Bread	02/12-13/01	02/14/01	10	99	92	97
0009343 Spk A4	Bread	02/12-13/01	02/14/01	2.5	111	109	106
0009343 Spk B4	Bread	02/12-13/01	02/14/01	10	102	100	100
0100006 Spk A1	Ground Beef	02/13/01	02/14-15/01	2.5	104	104	100
0100006 Spk B1	Ground Beef	02/13/01	02/14-15/01	10	103	99	95
0100006 Spk A2	Ground Beef	02/13/01	02/15/01	2.5	111	102	103
0100006 Spk B2	Ground Beef	02/13/01	02/15/01	10	103	98	98
0100006 Spk A3	Ground Beef	02/14/01	02/15/01	2.5	121	123	120
0100006 Spk B3	Ground Beef	02/14/01	02/15/01	10	106	116	114
0100006 Spk A4	Ground Beef	02/14/01	02/15-16/01	2.5	112	108	105
0100006 Spk B4	Ground Beef	02/14/01	02/15-16/01	10	102	101	102
0009342 Spk A1	Egg	05/07-08/01	05/08/01	2.5	111	-	-
0009342 Spk B1	Egg	05/07-08/01	05/08/01	10	99	-	-
0009342 Spk A2	Egg	05/07-08/01	05/08-09/01	2.5	111	-	-
0009342 Spk B2	Egg	05/07-08/01	05/08-09/01	10	102	-	-
0009342 Spk A3	Egg	05/08-09/01	05/09/01	2.5	106	-	-
0009342 Spk B3	Egg	05/08-09/01	05/09/01	10	94	-	-
0009342 Spk A4	Egg	05/08-09/01	05/09-10/01	2.5	109	-	-
0009342 Spk B4	Egg	05/08-09/01	05/09-10/01	10	102	-	-
0009342 Spk A1	Egg	05/18/01	05/18/01	2.5	-	-	110
0009342 Spk B1	Egg	05/18/01	05/18/01	10	-	-	99
0009342 Spk A2	Egg	05/18/01	05/18-19/01	2.5	-	-	102
0009342 Spk B2	Egg	05/18/01	05/18-19/01	10	-	-	108
0009342 Spk A3	Egg	05/20-21/01	05/21/01	2.5	-	-	96
0009342 Spk B3	Egg	05/20-21/01	05/21/01	10	-	-	96
0009342 Spk A4	Egg	05/20-21/01	05/21-22/01	2.5	-	-	95
0009342 Spk B4	Egg	05/20-21/01	05/21-22/01	10	-	-	96
AVERAGE:					101	96	104
STD DEV:					9.0	13	14
RELATIVE STD DEV:					9.0	13	14
n:					88	80	88

- = Not Analyzed For

Table II. Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012776	011101A Chicken	18249	Publix	Port St. Lucie, FL	Chicken	NQ	NQ	NQ
0012776 Dup	011101A Chicken	18249	Publix	Port St. Lucie, FL	Chicken	NQ	NQ	NQ
0012777	011101A Chicken	18226	Winn-Dixie	Port St. Lucie, FL	Chicken	NQ	NQ	NQ
0012777 Dup	011101A Chicken	18226	Winn-Dixie	Port St. Lucie, FL	Chicken	NQ	NQ	NQ
0012778	011101A Chicken	18239	Albertson's	Port St. Lucie, FL	Chicken	NQ	NQ	NQ
0012778 Dup	011101A Chicken	18239	Albertson's	Port St. Lucie, FL	Chicken	NQ	NQ	NQ
0012779	011101A Chicken	18356	Delchamps II	Mobile, AL	Chicken	NQ	NQ	NQ
0012779 Dup	011101A Chicken	18356	Delchamps II	Mobile, AL	Chicken	NQ	NQ	NQ
0012780	011101A Chicken	18197	Winn-Dixie	Columbus, GA	Chicken	NQ	NQ	NQ
0012780 Dup	011101A Chicken	18197	Winn-Dixie	Columbus, GA	Chicken	NQ	NQ	NQ
0012781	011101B Chicken	18345	Delchamps I	Mobile, AL	Chicken	NQ	NQ	NQ
0012781 Dup	011101B Chicken	18345	Delchamps I	Mobile, AL	Chicken	NQ	NQ	NQ
0012782	011101B Chicken	18209	Piggly Wiggly	Columbus, GA	Chicken	NQ	NQ	NQ
0012782 Dup	011101B Chicken	18209	Piggly Wiggly	Columbus, GA	Chicken	NQ	NQ	NQ
0012783	011101B Chicken	18335	Bruno's	Mobile, AL	Chicken	NQ	NQ	NQ
0012783 Dup	011101B Chicken	18335	Bruno's	Mobile, AL	Chicken	NQ	NQ	NQ
0012784	011101B Chicken	18323	Kroger's	Decatur, AL	Chicken	NQ	NQ	NQ
0012784 Dup	011101B Chicken	18323	Kroger's	Decatur, AL	Chicken	NQ	NQ	NQ
0012785	011101B Chicken	18312	Winn-Dixie	Decatur, AL	Chicken	NQ	NQ	NQ
0012785 Dup	011101B Chicken	18312	Winn-Dixie	Decatur, AL	Chicken	NQ	NQ	NQ
0012786	011201A Chicken	18301	Haloway	Decatur, AL	Chicken	NQ	NQ	NQ
0012786 Dup	011201A Chicken	18301	Haloway	Decatur, AL	Chicken	NQ	NQ	NQ
0012787	011201A Chicken	18187	Cub	Columbus, GA	Chicken	NQ	NQ	NQ
0012787 Dup	011201A Chicken	18187	Cub	Columbus, GA	Chicken	NQ	NQ	NQ
0012788	011201A Chicken	18174	Bi-Lo	Cleveland, TN	Chicken	NQ	NQ	NQ
0012788 Dup	011201A Chicken	18174	Bi-Lo	Cleveland, TN	Chicken	NQ	NQ	NQ
0012789	011201A Chicken	18163	Save-a-Lot	Cleveland, TN	Chicken	NQ	NQ	NQ
0012789 Dup	011201A Chicken	18163	Save-a-Lot	Cleveland, TN	Chicken	NQ	NQ	NQ
0012790	011201A Chicken	18283	Albertson's	Pensacola, FL	Chicken	NQ	NQ	NQ
0012790 Dup	011201A Chicken	18283	Albertson's	Pensacola, FL	Chicken	NQ	NQ	NQ
0012791	011201B Chicken	18260	Food World	Pensacola, FL	Chicken	NQ	NQ	NQ
0012791 Dup	011201B Chicken	18260	Food World	Pensacola, FL	Chicken	NQ	NQ	NQ

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012792	011201B Chicken	18151	Watson's	Cleveland, TN	Chicken	NQ	NQ	NQ
0012792 Dup	011201B Chicken	18151	Watson's	Cleveland, TN	Chicken	NQ	NQ	NQ
0012793	011201B Chicken	18272	Food World II	Pensacola, FL	Chicken	NQ	NQ	NQ
0012793 Dup	011201B Chicken	18272	Food World II	Pensacola, FL	Chicken	NQ	NQ	NQ
0012794	011501A Pork	18250	Publix	Port St. Lucie, FL	Pork	NQ	NQ	NQ
0012794 Dup	011501A Pork	18250	Publix	Port St. Lucie, FL	Pork	NQ	NQ	NQ
0012795	011501A Pork	18227	Winn-Dixie	Port St. Lucie, FL	Pork	NQ	NQ	NQ
0012795 Dup	011501A Pork	18227	Winn-Dixie	Port St. Lucie, FL	Pork	NQ	NQ	NQ
0012796	011501A Pork	18238	Albertson's	Port St. Lucie, FL	Pork	NQ	NQ	NQ
0012796 Dup	011501A Pork	18238	Albertson's	Port St. Lucie, FL	Pork	NQ	NQ	NQ
0012797	011501A Pork	18357	Delchamps II	Mobile, AL	Pork	NQ	NQ	NQ
0012797 Dup	011501A Pork	18357	Delchamps II	Mobile, AL	Pork	NQ	NQ	NQ
0012798	011501A Pork	18198	Winn-Dixie	Columbus, GA	Pork	NQ	NQ	NQ
0012798 Dup	011501A Pork	18198	Winn-Dixie	Columbus, GA	Pork	NQ	NQ	NQ
0012799	011501B Pork	18346	Delchamps I	Mobile, AL	Pork	NQ	NQ	NQ
0012799 Dup	011501B Pork	18346	Delchamps I	Mobile, AL	Pork	NQ	NQ	NQ
0012800	011501B Pork	18210	Piggly Wiggly	Columbus, GA	Pork	NQ	NQ	NQ
0012800 Dup	011501B Pork	18210	Piggly Wiggly	Columbus, GA	Pork	NQ	NQ	NQ
0012801	011501B Pork	18334	Bruno's	Mobile, AL	Pork	NQ	NQ	NQ
0012801 Dup	011501B Pork	18334	Bruno's	Mobile, AL	Pork	NQ	NQ	NQ
0012802	011501B Pork	18322	Kroger's	Decatur, AL	Pork	NQ	NQ	NQ
0012802 Dup	011501B Pork	18322	Kroger's	Decatur, AL	Pork	NQ	NQ	NQ
0012803	011501B Pork	18311	Winn-Dixie	Decatur, AL	Pork	NQ	NQ	NQ
0012803 Dup	011501B Pork	18311	Winn-Dixie	Decatur, AL	Pork	NQ	NQ	NQ
0012804	011601A Pork	18299	Haloway	Decatur, AL	Pork	NQ	NQ	NQ
0012804 Dup	011601A Pork	18299	Haloway	Decatur, AL	Pork	NQ	NQ	NQ
0012805	011601A Pork	18186	Cub	Columbus, GA	Pork	NQ	NQ	NQ
0012805 Dup	011601A Pork	18186	Cub	Columbus, GA	Pork	NQ	NQ	NQ
0012806	011601A Pork	18175	Bi-Lo	Cleveland, TN	Pork	NQ	NQ	NQ
0012806 Dup	011601A Pork	18175	Bi-Lo	Cleveland, TN	Pork	NQ	NQ	NQ
0012807	011601A Pork	18164	Save-a-Lot	Cleveland, TN	Pork	NQ	NQ	NQ
0012807 Dup	011601A Pork	18164	Save-a-Lot	Cleveland, TN	Pork	NQ	NQ	NQ

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012808	011601A Pork	18282	Albertson's	Pensacola, FL	Pork	NQ	NQ	NQ
0012808 Dup	011601A Pork	18282	Albertson's	Pensacola, FL	Pork	NQ	NQ	NQ
0012809	011601B Pork	18261	Food World	Pensacola, FL	Pork	NQ	NQ	NQ
0012809 Dup	011601B Pork	18261	Food World	Pensacola, FL	Pork	NQ	NQ	NQ
0012810	011601B Pork	18152	Watson's	Cleveland, TN	Pork	NQ	NQ	NQ
0012810 Dup	011601B Pork	18152	Watson's	Cleveland, TN	Pork	NQ	NQ	NQ
0012811	011601B Pork	18271	Food World II	Pensacola, FL	Pork	NQ	NQ	NQ
0012811 Dup	011601B Pork	18271	Food World II	Pensacola, FL	Pork	NQ	NQ	NQ
0012812	011701A Hot Dog	18251	Publix	Port St. Lucie, FL	Hot Dog	NQ	NQ	**
0012812 Dup	011701A Hot Dog	18251	Publix	Port St. Lucie, FL	Hot Dog	NQ	NQ	**
0012813	011701A Hot Dog	18228	Winn-Dixie	Port St. Lucie, FL	Hot Dog	NQ	NQ	**
0012813 Dup	011701A Hot Dog	18228	Winn-Dixie	Port St. Lucie, FL	Hot Dog	NQ	NQ	**
0012814	011701A Hot Dog	18240	Albertson's	Port St. Lucie, FL	Hot Dog	NQ	NQ	**
0012814 Dup	011701A Hot Dog	18240	Albertson's	Port St. Lucie, FL	Hot Dog	NQ	NQ	**
0012815	011701A Hot Dog	18358	Delchamps II	Mobile, AL	Hot Dog	NQ	NQ	**
0012815 Dup	011701A Hot Dog	18358	Delchamps II	Mobile, AL	Hot Dog	NQ	NQ	**
0012816	011701A Hot Dog	18199	Winn-Dixie	Columbus, GA	Hot Dog	NQ	NQ	**
0012816 Dup	011701A Hot Dog	18199	Winn-Dixie	Columbus, GA	Hot Dog	NQ	NQ	**
0012812	011701AR Hot Dog	18251	Publix	Port St. Lucie, FL	Hot Dog	-	-	NQ
0012812 Dup	011701AR Hot Dog	18251	Publix	Port St. Lucie, FL	Hot Dog	-	-	NQ
0012813	011701AR Hot Dog	18228	Winn-Dixie	Port St. Lucie, FL	Hot Dog	-	-	NQ
0012813 Dup	011701AR Hot Dog	18228	Winn-Dixie	Port St. Lucie, FL	Hot Dog	-	-	NQ
0012814	011701AR Hot Dog	18240	Albertson's	Port St. Lucie, FL	Hot Dog	-	-	NQ
0012814 Dup	011701AR Hot Dog	18240	Albertson's	Port St. Lucie, FL	Hot Dog	-	-	NQ
0012815	011701AR Hot Dog	18358	Delchamps II	Mobile, AL	Hot Dog	-	-	NQ
0012815 Dup	011701AR Hot Dog	18358	Delchamps II	Mobile, AL	Hot Dog	-	-	NQ
0012816	011701AR Hot Dog	18199	Winn-Dixie	Columbus, GA	Hot Dog	-	-	NQ
0012816 Dup	011701AR Hot Dog	18199	Winn-Dixie	Columbus, GA	Hot Dog	-	-	NQ
0012817	011701B Hot Dog	18347	Delchamps I	Mobile, AL	Hot Dog	NQ	NQ	NQ
0012817 Dup	011701B Hot Dog	18347	Delchamps I	Mobile, AL	Hot Dog	NQ	NQ	NQ
0012818	011701B Hot Dog	18211	Piggly Wiggly	Columbus, GA	Hot Dog	NQ	NQ	NQ
0012818 Dup	011701B Hot Dog	18211	Piggly Wiggly	Columbus, GA	Hot Dog	NQ	NQ	NQ

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

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- = Not analyzed for

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012819	011701B Hot Dog	18336	Bruno's	Mobile, AL	Hot Dog	NQ	NQ	NQ
0012819 Dup	011701B Hot Dog	18336	Bruno's	Mobile, AL	Hot Dog	NQ	NQ	NQ
0012820	011701B Hot Dog	18324	Kroger's	Decatur, AL	Hot Dog	NQ	NQ	NQ
0012820 Dup	011701B Hot Dog	18324	Kroger's	Decatur, AL	Hot Dog	NQ	NQ	NQ
0012821	011701B Hot Dog	18313	Winn-Dixie	Decatur, AL	Hot Dog	NQ	NQ	NQ
0012821 Dup	011701B Hot Dog	18313	Winn-Dixie	Decatur, AL	Hot Dog	NQ	NQ	NQ
0012822	011801A Hot Dog	18302	Haloway	Decatur, AL	Hot Dog	NQ	NQ	NQ
0012822 Dup	011801A Hot Dog	18302	Haloway	Decatur, AL	Hot Dog	NQ	NQ	NQ
0012823	011801A Hot Dog	18188	Cub	Columbus, GA	Hot Dog	NQ	NQ	NQ
0012823 Dup	011801A Hot Dog	18188	Cub	Columbus, GA	Hot Dog	NQ	NQ	NQ
0012824	011801A Hot Dog	18176	Bi-Lo	Cleveland, TN	Hot Dog	NQ	NQ	NQ
0012824 Dup	011801A Hot Dog	18176	Bi-Lo	Cleveland, TN	Hot Dog	NQ	NQ	NQ
0012825	011801A Hot Dog	18165	Save-a-Lot	Cleveland, TN	Hot Dog	NQ	NQ	NQ
0012825 Dup	011801A Hot Dog	18165	Save-a-Lot	Cleveland, TN	Hot Dog	NQ	NQ	NQ
0012826	011801A Hot Dog	18285	Albertson's	Pensacola, FL	Hot Dog	NQ	NQ	NQ
0012826 Dup	011801A Hot Dog	18285	Albertson's	Pensacola, FL	Hot Dog	NQ	NQ	NQ
0012827	011801B Hot Dog	18263	Food World	Pensacola, FL	Hot Dog	NQ	NQ	NQ
0012827 Dup	011801B Hot Dog	18263	Food World	Pensacola, FL	Hot Dog	NQ	NQ	NQ
0012828	011801B Hot Dog	18153	Watson's	Cleveland, TN	Hot Dog	NQ	NQ	NQ
0012828 Dup	011801B Hot Dog	18153	Watson's	Cleveland, TN	Hot Dog	NQ	NQ	NQ
0012829	011801B Hot Dog	18273	Food World II	Pensacola, FL	Hot Dog	NQ	NQ	NQ
0012829 Dup	011801B Hot Dog	18273	Food World II	Pensacola, FL	Hot Dog	NQ	NQ	NQ
0012830	011901A Fish	18252	Publix	Port St. Lucie, FL	Fish	NQ	NQ	NQ
0012830 Dup	011901A Fish	18252	Publix	Port St. Lucie, FL	Fish	NQ	NQ	NQ
0012831	011901A Fish	18229	Winn-Dixie	Port St. Lucie, FL	Fish	NQ	NQ	NQ
0012831 Dup	011901A Fish	18229	Winn-Dixie	Port St. Lucie, FL	Fish	NQ	NQ	NQ
0012832	011901A Fish	18241	Albertson's	Port St. Lucie, FL	Fish	NQ	NQ	NQ
0012832 Dup	011901A Fish	18241	Albertson's	Port St. Lucie, FL	Fish	NQ	NQ	NQ
0012833	011901A Fish	18359	Delchamps II	Mobile, AL	Fish	NQ	NQ	NQ
0012833 Dup	011901A Fish	18359	Delchamps II	Mobile, AL	Fish	NQ	NQ	NQ
0012834	011901A Fish	18200	Winn-Dixie	Columbus, GA	Fish	NQ	NQ	NQ
0012834 Dup	011901A Fish	18200	Winn-Dixie	Columbus, GA	Fish	NQ	NQ	NQ

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Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012835	011901B Fish	18348	Delchamps	Mobile, AL	Fish	NQ	**	NQ
0012835 Dup	011901B Fish	18348	Delchamps	Mobile, AL	Fish	NQ	**	NQ
0012836	011901B Fish	18212	Piggly Wiggly	Columbus, GA	Fish	NQ	**	NQ
0012836 Dup	011901B Fish	18212	Piggly Wiggly	Columbus, GA	Fish	NQ	**	NQ
0012837	011901B Fish	18337	Bruno's	Mobile, AL	Fish	NQ	**	NQ
0012837 Dup	011901B Fish	18337	Bruno's	Mobile, AL	Fish	NQ	**	NQ
0012838	011901B Fish	18325	Kroger's	Decatur, AL	Fish	NQ	**	NQ
0012838 Dup	011901B Fish	18325	Kroger's	Decatur, AL	Fish	NQ	**	NQ
0012839	011901B Fish	18314	Winn-Dixie	Decatur, AL	Fish	NQ	**	NQ
0012839 Dup	011901B Fish	18314	Winn-Dixie	Decatur, AL	Fish	NQ	**	NQ
0012835	013001A Fish	18348	Delchamps	Mobile, AL	Fish	-	NQ	-
0012835 Dup	013001A Fish	18348	Delchamps	Mobile, AL	Fish	-	NQ	-
0012836	013001A Fish	18212	Piggly Wiggly	Columbus, GA	Fish	-	NQ	-
0012836 Dup	013001A Fish	18212	Piggly Wiggly	Columbus, GA	Fish	-	NQ	-
0012837	013001A Fish	18337	Bruno's	Mobile, AL	Fish	-	NQ	-
0012837 Dup	013001A Fish	18337	Bruno's	Mobile, AL	Fish	-	NQ	-
0012838	013001A Fish	18325	Kroger's	Decatur, AL	Fish	-	NQ	-
0012838 Dup	013001A Fish	18325	Kroger's	Decatur, AL	Fish	-	NQ	-
0012839	013001A Fish	18314	Winn-Dixie	Decatur, AL	Fish	-	NQ	-
0012839 Dup	013001A Fish	18314	Winn-Dixie	Decatur, AL	Fish	-	NQ	-
0012840	012201A Fish	18303	Haloway	Decatur, AL	Fish	NQ	NQ	NQ
0012840 Dup	012201A Fish	18303	Haloway	Decatur, AL	Fish	NQ	NQ	NQ
0012841	012201A Fish	18177	Bi-Lo	Cleveland, TN	Fish	NQ	NQ	NQ
0012841 Dup	012201A Fish	18177	Bi-Lo	Cleveland, TN	Fish	NQ	NQ	NQ
0012842	012201A Fish	18166	Save-a-Lot	Cleveland, TN	Fish	NQ	NQ	NQ
0012842 Dup	012201A Fish	18166	Save-a-Lot	Cleveland, TN	Fish	NQ	NQ	NQ
0012843	012201A Fish	18284	Albertson's	Pensacola, FL	Fish	NQ	NQ	NQ
0012843 Dup	012201A Fish	18284	Albertson's	Pensacola, FL	Fish	NQ	NQ	NQ
0012844	012201A Fish	18262	Food World	Pensacola, FL	Fish	NQ	NQ	NQ
0012844 Dup	012201A Fish	18262	Food World	Pensacola, FL	Fish	NQ	NQ	NQ
0012845	012201B Fish	18154	Watson's	Cleveland, TN	Fish	NQ	NQ	NQ
0012845 Dup	012201B Fish	18154	Watson's	Cleveland, TN	Fish	NQ	NQ	NQ

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Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012846	012201B Fish	18274	Food World II	Pensacola, FL	Fish	NQ	NQ	NQ
0012846 Dup	012201B Fish	18274	Food World II	Pensacola, FL	Fish	NQ	NQ	NQ
0012903	020501A Bean	18256	Publix	Port St. Lucie, FL	Green Bean	NQ	NQ	NQ
0012903 Dup	020501A Bean	18256	Publix	Port St. Lucie, FL	Green Bean	NQ	NQ	NQ
0012904	020501A Bean	18234	Winn-Dixie	Port St. Lucie, FL	Green Bean	NQ	NQ	NQ
0012904 Dup	020501A Bean	18234	Winn-Dixie	Port St. Lucie, FL	Green Bean	NQ	NQ	NQ
0012905	020501A Bean	18245	Albertson's	Port St. Lucie, FL	Green Bean	NQ	NQ	NQ
0012905 Dup	020501A Bean	18245	Albertson's	Port St. Lucie, FL	Green Bean	NQ	NQ	NQ
0012906	020501A Bean	18363	Delchamps II	Mobile, AL	Green Bean	NQ	NQ	0.543
0012906 Dup	020501A Bean	18363	Delchamps II	Mobile, AL	Green Bean	NQ	NQ	NQ
0012907	020501A Bean	18204	Winn-Dixie	Columbus, GA	Green Bean	NQ	NQ	NQ
0012907 Dup	020501A Bean	18204	Winn-Dixie	Columbus, GA	Green Bean	NQ	NQ	NQ
0012908	020601C Bean	18352	Delchamps I	Mobile, AL	Green Bean	NQ	NQ	NQ
0012908 Dup	020601C Bean	18352	Delchamps I	Mobile, AL	Green Bean	NQ	NQ	NQ
0012909	020601C Bean	18216	Piggly Wiggly	Columbus, GA	Green Bean	NQ	NQ	NQ
0012909 Dup	020601C Bean	18216	Piggly Wiggly	Columbus, GA	Green Bean	NQ	NQ	NQ
0012910	020601C Bean	18341	Bruno's	Mobile, AL	Green Bean	NQ	NQ	NQ
0012910 Dup	020601C Bean	18341	Bruno's	Mobile, AL	Green Bean	NQ	NQ	NQ
0012911	020601C Bean	18329	Kroger's	Decatur, AL	Green Bean	NQ	NQ	NQ
0012911 Dup	020601C Bean	18329	Kroger's	Decatur, AL	Green Bean	NQ	NQ	NQ
0012912	020601C Bean	18318	Winn-Dixie	Decatur, AL	Green Bean	NQ	NQ	NQ
0012912 Dup	020601C Bean	18318	Winn-Dixie	Decatur, AL	Green Bean	NQ	NQ	NQ
0012913	020801C Bean	18307	Haloway	Decatur, AL	Green Bean	NQ	NQ	NQ
0012913 Dup	020801C Bean	18307	Haloway	Decatur, AL	Green Bean	NQ	NQ	NQ
0012914	020801C Bean	18193	Cub	Columbus, GA	Green Bean	NQ	NQ	NQ
0012914 Dup	020801C Bean	18193	Cub	Columbus, GA	Green Bean	NQ	NQ	NQ
0012915	020801C Bean	18182	Bi-Lo	Cleveland, TN	Green Bean	NQ	NQ	NQ
0012915 Dup	020801C Bean	18182	Bi-Lo	Cleveland, TN	Green Bean	NQ	NQ	NQ
0012916	020801C Bean	18289	Albertson's	Pensacola, FL	Green Bean	NQ	NQ	NQ
0012916 Dup	020801C Bean	18289	Albertson's	Pensacola, FL	Green Bean	NQ	NQ	NQ
0012917	020801C Bean	18267	Food World	Pensacola, FL	Green Bean	NQ	NQ	NQ
0012917 Dup	020801C Bean	18267	Food World	Pensacola, FL	Green Bean	NQ	NQ	NQ

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Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012918	020801D Bean	36868	Watson's	Cleveland, TN	Green Bean	NQ	NQ	NQ
0012918 Dup	020801D Bean	36868	Watson's	Cleveland, TN	Green Bean	NQ	NQ	NQ
0012919	020801D Bean	18278	Food World II	Pensacola, FL	Green Bean	NQ	NQ	NQ
0012919 Dup	020801D Bean	18278	Food World II	Pensacola, FL	Green Bean	NQ	NQ	NQ
0012867	020701A Milk	18254	Publix	Port St. Lucie, FL	Milk	NQ	NQ	NQ
0012867 Dup	020701A Milk	18254	Publix	Port St. Lucie, FL	Milk	NQ	NQ	NQ
0012868	020701A Milk	18231	Winn-Dixie	Port St. Lucie, FL	Milk	NQ	NQ	NQ
0012868 Dup	020701A Milk	18231	Winn-Dixie	Port St. Lucie, FL	Milk	NQ	NQ	NQ
0012869	020701A Milk	18243	Albertson's	Port St. Lucie, FL	Milk	NQ	NQ	NQ
0012869 Dup	020701A Milk	18243	Albertson's	Port St. Lucie, FL	Milk	NQ	NQ	NQ
0012870	020701A Milk	18361	Delchamps II	Mobile, AL	Milk	NQ	NQ	NQ
0012870 Dup	020701A Milk	18361	Delchamps II	Mobile, AL	Milk	NQ	NQ	NQ
0012871	020701A Milk	18202	Winn-Dixie	Columbus, GA	Milk	NQ	NQ	NQ
0012871 Dup	020701A Milk	18202	Winn-Dixie	Columbus, GA	Milk	0.693	NQ	NQ
0012872	020701B Milk	18350	Delchamps I	Mobile, AL	Milk	NQ	NQ	NQ
0012872 Dup	020701B Milk	18350	Delchamps I	Mobile, AL	Milk	NQ	NQ	NQ
0012873	020701B Milk	18214	Piggly Wiggly	Columbus, GA	Milk	NQ	NQ	NQ
0012873 Dup	020701B Milk	18214	Piggly Wiggly	Columbus, GA	Milk	NQ	NQ	NQ
0012874	020701B Milk	18339	Bruno's	Mobile, AL	Milk	NQ	NQ	NQ
0012874 Dup	020701B Milk	18339	Bruno's	Mobile, AL	Milk	NQ	NQ	NQ
0012875	020701B Milk	18327	Kroger's	Decatur, AL	Milk	NQ	NQ	NQ
0012875 Dup	020701B Milk	18327	Kroger's	Decatur, AL	Milk	NQ	NQ	NQ
0012876	020701B Milk	18316	Winn-Dixie	Decatur, AL	Milk	NQ	NQ	NQ
0012876 Dup	020701B Milk	18316	Winn-Dixie	Decatur, AL	Milk	NQ	NQ	NQ
0012877	020801A Milk	18305	Haloway	Decatur, AL	Milk	NQ	NQ	NQ
0012877 Dup	020801A Milk	18305	Haloway	Decatur, AL	Milk	NQ	NQ	NQ
0012878	020801A Milk	18190	Cub	Columbus, GA	Milk	NQ	NQ	NQ
0012878 Dup	020801A Milk	18190	Cub	Columbus, GA	Milk	NQ	NQ	NQ
0012879	020801A Milk	18179	Bi-Lo	Cleveland, TN	Milk	NQ	NQ	NQ
0012879 Dup	020801A Milk	18179	Bi-Lo	Cleveland, TN	Milk	NQ	NQ	NQ
0012880	020801A Milk	18168	Save-a-Lot	Cleveland, TN	Milk	NQ	NQ	NQ
0012880 Dup	020801A Milk	18168	Save-a-Lot	Cleveland, TN	Milk	0.573	NQ	NQ

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Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012881	020801A Milk	18287	Albertson's	Pensacola, FL	Milk	NQ	NQ	NQ
0012881 Dup	020801A Milk	18287	Albertson's	Pensacola, FL	Milk	NQ	NQ	NQ
0012882	020801B Milk	18265	Food World	Pensacola, FL	Milk	0.852	NQ	NQ
0012882 Dup	020801B Milk	18265	Food World	Pensacola, FL	Milk	NQ	NQ	NQ
0012883	020801B Milk	18156	Watson's	Cleveland, TN	Milk	NQ	NQ	NQ
0012883 Dup	020801B Milk	18156	Watson's	Cleveland, TN	Milk	NQ	NQ	NQ
0012884	020801B Milk	18276	Food World II	Pensacola, FL	Milk	NQ	NQ	NQ
0012884 Dup	020801B Milk	18276	Food World II	Pensacola, FL	Milk	0.605	NQ	NQ
0012926	020901C Apple	18205	Winn-Dixie	Columbus, GA	Apple	NQ	NQ	NQ
0012926 Dup	020901C Apple	18205	Winn-Dixie	Columbus, GA	Apple	NQ	NQ	NQ
0012927	020901C Apple	18257	Publix	Port St. Lucie, FL	Apple	NQ	NQ	NQ
0012927 Dup	020901C Apple	18257	Publix	Port St. Lucie, FL	Apple	NQ	NQ	NQ
0012928	020901C Apple	18235	Winn-Dixie	Port St. Lucie, FL	Apple	NQ	NQ	NQ
0012928 Dup	020901C Apple	18235	Winn-Dixie	Port St. Lucie, FL	Apple	NQ	NQ	NQ
0012929	020901C Apple	18246	Albertson's	Port St. Lucie, FL	Apple	NQ	NQ	NQ
0012929 Dup	020901C Apple	18246	Albertson's	Port St. Lucie, FL	Apple	NQ	NQ	NQ
0012930	020901C Apple	18364	Delchamps II	Mobile, AL	Apple	NQ	NQ	NQ
0012930 Dup	020901C Apple	18364	Delchamps II	Mobile, AL	Apple	NQ	NQ	NQ
0012931	021201A Apple	18353	Delchamps I	Mobile, AL	Apple	NQ	NQ	NQ
0012931 Dup	021201A Apple	18353	Delchamps I	Mobile, AL	Apple	NQ	NQ	NQ
0012932	021201A Apple	18217	Piggly Wiggly	Columbus, GA	Apple	NQ	NQ	NQ
0012932 Dup	021201A Apple	18217	Piggly Wiggly	Columbus, GA	Apple	NQ	NQ	NQ
0012933	021201A Apple	18342	Bruno's	Mobile, AL	Apple	NQ	NQ	NQ
0012933 Dup	021201A Apple	18342	Bruno's	Mobile, AL	Apple	NQ	NQ	NQ
0012934	021201A Apple	18330	Kroger's	Decatur, AL	Apple	NQ	NQ	NQ
0012934 Dup	021201A Apple	18330	Kroger's	Decatur, AL	Apple	NQ	NQ	2.35
0012935	021201A Apple	18319	Winn-Dixie	Decatur, AL	Apple	NQ	NQ	NQ
0012935 Dup	021201A Apple	18319	Winn-Dixie	Decatur, AL	Apple	NQ	NQ	NQ
0012936	021201B Apple	18308	Haloway	Decatur, AL	Apple	NQ	NQ	NQ
0012936 Dup	021201B Apple	18308	Haloway	Decatur, AL	Apple	NQ	NQ	NQ
0012937	021201B Apple	18194	Cub	Columbus, GA	Apple	NQ	NQ	NQ
0012937 Dup	021201B Apple	18194	Cub	Columbus, GA	Apple	NQ	NQ	NQ

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Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012938	021201B Apple	18183	Bi-Lo	Cleveland, TN	Apple	NQ	NQ	NQ
0012938 Dup	021201B Apple	18183	Bi-Lo	Cleveland, TN	Apple	NQ	NQ	NQ
0012939	021201B Apple	18170	Save-a-Lot	Cleveland, TN	Apple	NQ	NQ	NQ
0012939 Dup	021201B Apple	18170	Save-a-Lot	Cleveland, TN	Apple	NQ	NQ	NQ
0012940	021201B Apple	18290	Albertson's	Pensacola, FL	Apple	NQ	NQ	NQ
0012940 Dup	021201B Apple	18290	Albertson's	Pensacola, FL	Apple	NQ	NQ	NQ
0012941	021201C Apple	18268	Food World	Pensacola, FL	Apple	NQ	NQ	1.13
0012941 Dup	021201C Apple	18268	Food World	Pensacola, FL	Apple	NQ	NQ	NQ
0012942	021201C Apple	18159	Watson's	Cleveland, TN	Apple	NQ	NQ	NQ
0012942 Dup	021201C Apple	18159	Watson's	Cleveland, TN	Apple	NQ	NQ	NQ^
0012943	021201C Apple	18279	Food World II	Pensacola, FL	Apple	NQ	NQ	NQ
0012943 Dup	021201C Apple	18279	Food World II	Pensacola, FL	Apple	NQ	NQ	NQ
0012885	020901A Bread	18255	Publix	Port St. Lucie, FL	Bread	NQ	NQ	NQ
0012885 Dup	020901A Bread	18255	Publix	Port St. Lucie, FL	Bread	NQ	NQ	NQ
0012886	020901A Bread	18233	Winn-Dixie	Port St. Lucie, FL	Bread	NQ	NQ	NQ
0012886 Dup	020901A Bread	18233	Winn-Dixie	Port St. Lucie, FL	Bread	NQ	NQ	NQ
0012887	020901A Bread	18244	Albertson's	Port St. Lucie, FL	Bread	NQ	NQ	NQ
0012887 Dup	020901A Bread	18244	Albertson's	Port St. Lucie, FL	Bread	NQ	NQ	NQ
0012888	020901A Bread	18362	Delchamps II	Mobile, AL	Bread	NQ	NQ	NQ
0012888 Dup	020901A Bread	18362	Delchamps II	Mobile, AL	Bread	NQ	NQ	NQ
0012889	020901A Bread	18203	Winn-Dixie	Columbus, GA	Bread	NQ	NQ	NQ
0012889 Dup	020901A Bread	18203	Winn-Dixie	Columbus, GA	Bread	NQ	NQ	NQ
0012890	020901B Bread	18351	Delchamps I	Mobile, AL	Bread	NQ	NQ	NQ
0012890 Dup	020901B Bread	18351	Delchamps I	Mobile, AL	Bread	NQ	NQ	NQ
0012891	020901B Bread	18215	Piggly Wiggly	Columbus, GA	Bread	NQ	NQ	NQ
0012891 Dup	020901B Bread	18215	Piggly Wiggly	Columbus, GA	Bread	NQ	NQ	NQ
0012892	020901B Bread	18340	Bruno's	Mobile, AL	Bread	NQ	NQ	NQ
0012892 Dup	020901B Bread	18340	Bruno's	Mobile, AL	Bread	NQ	NQ	NQ
0012893	020901B Bread	18328	Kroger's	Decatur, AL	Bread	NQ	NQ	NQ
0012893 Dup	020901B Bread	18328	Kroger's	Decatur, AL	Bread	NQ	NQ	NQ
0012894	020901B Bread	18317	Winn-Dixie	Decatur, AL	Bread	NQ	NQ	NQ
0012894 Dup	020901B Bread	18317	Winn-Dixie	Decatur, AL	Bread	NQ	NQ	NQ

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

^ = Sample result fell below 0.5 ng/g when adjusting for purity of PFOA.

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012895	021301A Bread	18306	Haloway	Decatur, AL	Bread	NQ	NQ	NQ
0012895 Dup	021301A Bread	18306	Haloway	Decatur, AL	Bread	NQ	NQ	NQ
0012896	021301A Bread	18192	Cub	Columbus, GA	Bread	NQ	NQ	NQ
0012896 Dup	021301A Bread	18192	Cub	Columbus, GA	Bread	NQ	NQ	NQ
0012897	021301A Bread	18181	Bi-Lo	Cleveland, TN	Bread	NQ	NQ	NQ
0012897 Dup	021301A Bread	18181	Bi-Lo	Cleveland, TN	Bread	NQ	NQ	NQ
0012898	021301A Bread	18172	Save-a-Lot	Cleveland, TN	Bread	NQ	NQ	NQ
0012898 Dup	021301A Bread	18172	Save-a-Lot	Cleveland, TN	Bread	NQ	NQ	14.7^
0012899	021301A Bread	18288	Albertson's	Pensacola, FL	Bread	NQ	NQ	NQ
0012899 Dup	021301A Bread	18288	Albertson's	Pensacola, FL	Bread	NQ	NQ	NQ
0012900	021301B Bread	18266	Food World	Pensacola, FL	Bread	NQ	NQ	NQ
0012900 Dup	021301B Bread	18266	Food World	Pensacola, FL	Bread	NQ	NQ	NQ
0012901	021301B Bread	18158	Watson's	Cleveland, TN	Bread	NQ	NQ	NQ
0012901 Dup	021301B Bread	18158	Watson's	Cleveland, TN	Bread	NQ	NQ	NQ
0012902	021301B Bread	18277	Food World II	Pensacola, FL	Bread	NQ	NQ	NQ
0012902 Dup	021301B Bread	18277	Food World II	Pensacola, FL	Bread	NQ	NQ	0.524
0012758	021301C Beef	18248	Publix	Port St. Lucie, FL	Ground Beef	NQ	NQ	NQ
0012758 Dup	021301C Beef	18248	Publix	Port St. Lucie, FL	Ground Beef	NQ	NQ	0.504
0012759	021301C Beef	18225	Winn-Dixie	Port St. Lucie, FL	Ground Beef	NQ	NQ	NQ
0012759 Dup	021301C Beef	18225	Winn-Dixie	Port St. Lucie, FL	Ground Beef	NQ	NQ	NQ
0012760	021301C Beef	18237	Albertson's	Port St. Lucie, FL	Ground Beef	NQ	NQ	1.09
0012760 Dup	021301C Beef	18237	Albertson's	Port St. Lucie, FL	Ground Beef	NQ	NQ	NQ
0012761	021301C Beef	18355	Delchamps II	Mobile, AL	Ground Beef	NQ	NQ	NQ
0012761 Dup	021301C Beef	18355	Delchamps II	Mobile, AL	Ground Beef	NQ	NQ	NQ
0012762	021301C Beef	18196	Winn-Dixie	Columbus, GA	Ground Beef	NQ	NQ	NQ
0012762 Dup	021301C Beef	18196	Winn-Dixie	Columbus, GA	Ground Beef	NQ	NQ	NQ
0012763	021301D Beef	18344	Delchamps I	Mobile, AL	Ground Beef	0.570	NQ	NQ
0012763 Dup	021301D Beef	18344	Delchamps I	Mobile, AL	Ground Beef	0.587	NQ	NQ
0012764	021301D Beef	18208	Piggly Wiggly	Columbus, GA	Ground Beef	NQ	NQ	NQ
0012764 Dup	021301D Beef	18208	Piggly Wiggly	Columbus, GA	Ground Beef	NQ	NQ	NQ
0012765	021301D Beef	18333	Bruno's	Mobile, AL	Ground Beef	NQ	NQ	NQ
0012765 Dup	021301D Beef	18333	Bruno's	Mobile, AL	Ground Beef	NQ	NQ	NQ

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^ = Result is suspect. Apparent contamination.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012766	021301D Beef	18321	Kroger's	Decatur, AL	Ground Beef	NQ	NQ	NQ
0012766 Dup	021301D Beef	18321	Kroger's	Decatur, AL	Ground Beef	NQ	NQ	NQ
0012767	021301D Beef	18310	Winn-Dixie	Decatur, AL	Ground Beef	NQ	NQ	NQ
0012767 Dup	021301D Beef	18310	Winn-Dixie	Decatur, AL	Ground Beef	NQ	NQ	NQ
0012768	021401A Beef	18300	Haloway	Decatur, AL	Ground Beef	NQ	NQ	NQ
0012768 Dup	021401A Beef	18300	Haloway	Decatur, AL	Ground Beef	NQ	NQ	NQ
0012769	021401A Beef	18185	Cub	Columbus, GA	Ground Beef	NQ	NQ	NQ
0012769 Dup	021401A Beef	18185	Cub	Columbus, GA	Ground Beef	NQ	NQ	NQ
0012770	021401A Beef	18173	Bi-Lo	Cleveland, TN	Ground Beef	NQ	NQ	NQ
0012770 Dup	021401A Beef	18173	Bi-Lo	Cleveland, TN	Ground Beef	NQ	NQ	NQ
0012771	021401A Beef	18162	Save-a-Lot	Cleveland, TN	Ground Beef	NQ	NQ	NQ
0012771 Dup	021401A Beef	18162	Save-a-Lot	Cleveland, TN	Ground Beef	NQ	NQ	NQ
0012772	021401A Beef	18281	Albertson's	Pensacola, FL	Ground Beef	NQ	NQ	NQ
0012772 Dup	021401A Beef	18281	Albertson's	Pensacola, FL	Ground Beef	NQ	NQ	NQ
0012773	021401B Beef	18259	Food World	Pensacola, FL	Ground Beef	NQ	NQ	NQ
0012773 Dup	021401B Beef	18259	Food World	Pensacola, FL	Ground Beef	NQ	NQ	NQ
0012774	021401B Beef	18161	Watson's	Cleveland, TN	Ground Beef	NQ	NQ	NQ
0012774 Dup	021401B Beef	18161	Watson's	Cleveland, TN	Ground Beef	NQ	NQ	NQ
0012775	021401B Beef	18270	Food World II	Pensacola, FL	Ground Beef	NQ	NQ	NQ
0012775 Dup	021401B Beef	18270	Food World II	Pensacola, FL	Ground Beef	NQ	NQ	NQ
0012847	012301A Egg	18253	Publix	Port St. Lucie, FL	Egg	^^	NQ	^^
0012847 Dup	012301A Egg	18253	Publix	Port St. Lucie, FL	Egg	^^	NQ	^^
0012848	012301A Egg	18230	Winn-Dixie	Port St. Lucie, FL	Egg	^^	NQ	^^
0012848 Dup	012301A Egg	18230	Winn-Dixie	Port St. Lucie, FL	Egg	^^	NQ	^^
0012849	012301A Egg	18242	Albertson's	Port St. Lucie, FL	Egg	^^	NQ	^^
0012849 Dup	012301A Egg	18242	Albertson's	Port St. Lucie, FL	Egg	^^	NQ	^^
0012850	012301A Egg	18360	Delchamps II	Mobile, AL	Egg	^^	NQ	^^
0012850 Dup	012301A Egg	18360	Delchamps II	Mobile, AL	Egg	^^	NQ	^^
0012851	012301A Egg	18201	Winn-Dixie	Columbus, GA	Egg	^^	NQ	^^
0012851 Dup	012301A Egg	18201	Winn-Dixie	Columbus, GA	Egg	^^	NQ	^^
0012852	012301B Egg	18349	Delchamps I	Mobile, AL	Egg	^^	NQ	^^
0012852 Dup	012301B Egg	18349	Delchamps I	Mobile, AL	Egg	^^	NQ	^^

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0012853	012301B Egg	18219	Peggy's	Port St. Lucie, FL	Egg	^^	NQ	^^
0012853 Dup	012301B Egg	18219	Peggy's	Port St. Lucie, FL	Egg	^^	NQ	^^
0012854	012301B Egg	18213	Piggly Wiggly	Columbus, GA	Egg	^^	NQ	^^
0012854 Dup	012301B Egg	18213	Piggly Wiggly	Columbus, GA	Egg	^^	NQ	^^
0012855	012301B Egg	18338	Bruno's	Mobile, AL	Egg	^^	NQ	^^
0012855 Dup	012301B Egg	18338	Bruno's	Mobile, AL	Egg	^^	NQ	^^
0012856	012301B Egg	18326	Kroger's	Decatur, AL	Egg	^^	NQ	^^
0012856 Dup	012301B Egg	18326	Kroger's	Decatur, AL	Egg	^^	NQ	^^
0012857	012401A Egg	18315	Winn-Dixie	Decatur, AL	Egg	^^	NQ	^^
0012857 Dup	012401A Egg	18315	Winn-Dixie	Decatur, AL	Egg	^^	NQ	^^
0012858	012401A Egg	18304	Haloway	Decatur, AL	Egg	^^	NQ	^^
0012858 Dup	012401A Egg	18304	Haloway	Decatur, AL	Egg	^^	NQ	^^
0012859	012401A Egg	18189	Cub	Columbus, GA	Egg	^^	NQ	^^
0012859 Dup	012401A Egg	18189	Cub	Columbus, GA	Egg	^^	NQ	^^
0012860	012401A Egg	18178	Bi-Lo	Cleveland, TN	Egg	^^	NQ	^^
0012860 Dup	012401A Egg	18178	Bi-Lo	Cleveland, TN	Egg	^^	NQ	^^
0012861	012401A Egg	18167	Save-a-Lot	Cleveland, TN	Egg	^^	NQ	^^
0012861 Dup	012401A Egg	18167	Save-a-Lot	Cleveland, TN	Egg	^^	NQ	^^
0012862	012401B Egg	18286	Albertson's	Pensacola, FL	Egg	^^	NQ	^^
0012862 Dup	012401B Egg	18286	Albertson's	Pensacola, FL	Egg	^^	NQ	^^
0012863	012401B Egg	18264	Food World	Pensacola, FL	Egg	^^	NQ	^^
0012863 Dup	012401B Egg	18264	Food World	Pensacola, FL	Egg	^^	NQ	^^
0012864	012401B Egg	18296	Farmer's Market	Mobile, AL	Egg	^^	NQ	^^
0012864 Dup	012401B Egg	18296	Farmer's Market	Mobile, AL	Egg	^^	NQ	^^
0012865	012401B Egg	18155	Watson's	Cleveland, TN	Egg	^^	NQ	^^
0012865 Dup	012401B Egg	18155	Watson's	Cleveland, TN	Egg	^^	NQ	^^
0012866	012401B Egg	18275	Food World II	Pensacola, FL	Egg	^^	NQ	^^
0012866 Dup	012401B Egg	18275	Food World II	Pensacola, FL	Egg	^^	NQ	^^
0106429	050801A Egg	21213	Winn-Dixie	Port St. Lucie, FL	Egg	NQ	-	^^
0106429 Dup	050801A Egg	21213	Winn-Dixie	Port St. Lucie, FL	Egg	NQ	-	^^
0106430	050801A Egg	21214	Albertson's	Port St. Lucie, FL	Egg	NQ	-	^^
0106430 Dup	050801A Egg	21214	Albertson's	Port St. Lucie, FL	Egg	NQ	-	^^

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0106431	050801A Egg	21216	Winn-Dixie	Columbus, GA	Egg	NQ	-	^^
0106431 Dup	050801A Egg	21216	Winn-Dixie	Columbus, GA	Egg	NQ	-	^^
0106432	050801A Egg	21217	Delchamps I	Mobile, AL	Egg	NQ	-	^^
0106432 Dup	050801A Egg	21217	Delchamps I	Mobile, AL	Egg	NQ	-	^^
0106433	050801A Egg	21218	Peggy's	Port St. Lucie, FL	Egg	NQ	-	^^
0106433 Dup	050801A Egg	21218	Peggy's	Port St. Lucie, FL	Egg	NQ	-	^^
0106434	050801B Egg	21219	Piggly Wiggly	Columbus, GA	Egg	NQ	-	^^
0106434 Dup	050801B Egg	21219	Piggly Wiggly	Columbus, GA	Egg	NQ	-	^^
0106435	050801B Egg	21221	Kroger's	Decatur, AL	Egg	NQ	-	^^
0106435 Dup	050801B Egg	21221	Kroger's	Decatur, AL	Egg	NQ	-	^^
0106436	050801B Egg	21222	Winn-Dixie	Decatur, AL	Egg	NQ	-	^^
0106436 Dup	050801B Egg	21222	Winn-Dixie	Decatur, AL	Egg	NQ	-	^^
0106437	050801B Egg	21223	Haloway	Decatur, AL	Egg	NQ	-	^^
0106437 Dup	050801B Egg	21223	Haloway	Decatur, AL	Egg	NQ	-	^^
0106438	050801B Egg	21224	Cub	Columbus, GA	Egg	NQ	-	^^
0106438 Dup	050801B Egg	21224	Cub	Columbus, GA	Egg	NQ	-	^^
0106439	050901A Egg	21225	Bi-Lo	Cleveland, TN	Egg	NQ	-	^^
0106439 Dup	050901A Egg	21225	Bi-Lo	Cleveland, TN	Egg	NQ	-	^^
0106440	050901A Egg	21226	Save-a-Lot	Cleveland, TN	Egg	NQ	-	^^
0106440 Dup	050901A Egg	21226	Save-a-Lot	Cleveland, TN	Egg	NQ	-	^^
0106441	050901A Egg	21227	Albertson's	Pensacola, FL	Egg	NQ	-	^^
0106441 Dup	050901A Egg	21227	Albertson's	Pensacola, FL	Egg	NQ	-	^^
0106442	050901A Egg	21228	Food World	Pensacola, FL	Egg	NQ	-	^^
0106442 Dup	050901A Egg	21228	Food World	Pensacola, FL	Egg	NQ	-	^^
0106443	050901A Egg	21229	Farmer's Market	Mobile, AL	Egg	NQ	-	^^
0106443 Dup	050901A Egg	21229	Farmer's Market	Mobile, AL	Egg	NQ	-	^^
0106444	050901B Egg	21230	Watson's	Cleveland, TN	Egg	NQ	-	^^
0106444 Dup	050901B Egg	21230	Watson's	Cleveland, TN	Egg	NQ	-	^^
0106445	050901B Egg	21231	Food World II	Pensacola, FL	Egg	NQ	-	^^
0106445 Dup	050901B Egg	21231	Food World II	Pensacola, FL	Egg	NQ	-	^^
0106446	050901B Egg	na	\$	\$	Egg	NQ	-	^^
0106446 Dup	050901B Egg	na	\$	\$	Egg	NQ	-	^^

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

\$ = Sample labels fell off during second shipping and there was no way of telling samples apart.

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0106447	050901B Egg	na	\$	\$	Egg	NQ	-	^^
0106447 Dup	050901B Egg	na	\$	\$	Egg	NQ	-	^^
0106448	050901B Egg	na	\$	\$	Egg	NQ	-	^^
0106448 Dup	050901B Egg	na	\$	\$	Egg	NQ	-	^^
0106429	051801A Egg	21213	Winn-Dixie	Port St. Lucie, FL	Egg	-	-	NQ
0106429 Dup	051801A Egg	21213	Winn-Dixie	Port St. Lucie, FL	Egg	-	-	NQ
0106430	051801A Egg	21214	Albertson's	Port St. Lucie, FL	Egg	-	-	NQ
0106430 Dup	051801A Egg	21214	Albertson's	Port St. Lucie, FL	Egg	-	-	NQ
0106431	051801A Egg	21216	Winn-Dixie	Columbus, GA	Egg	-	-	NQ
0106431 Dup	051801A Egg	21216	Winn-Dixie	Columbus, GA	Egg	-	-	NQ
0106432	051801A Egg	21217	Delchamps I	Mobile, AL	Egg	-	-	NQ
0106432 Dup	051801A Egg	21217	Delchamps I	Mobile, AL	Egg	-	-	NQ
0106433	051801A Egg	21218	Peggy's	Port St. Lucie, FL	Egg	-	-	NQ
0106433 Dup	051801A Egg	21218	Peggy's	Port St. Lucie, FL	Egg	-	-	NQ
0106434	051801B Egg	21219	Piggly Wiggly	Columbus, GA	Egg	-	-	NQ
0106434 Dup	051801B Egg	21219	Piggly Wiggly	Columbus, GA	Egg	-	-	NQ
0106435	051801B Egg	21221	Kroger's	Decatur, AL	Egg	-	-	NQ
0106435 Dup	051801B Egg	21221	Kroger's	Decatur, AL	Egg	-	-	NQ
0106436	051801B Egg	21222	Winn-Dixie	Decatur, AL	Egg	-	-	NQ
0106436 Dup	051801B Egg	21222	Winn-Dixie	Decatur, AL	Egg	-	-	NQ
0106437	051801B Egg	21223	Haloway	Decatur, AL	Egg	-	-	NQ
0106437 Dup	051801B Egg	21223	Haloway	Decatur, AL	Egg	-	-	NQ
0106438	051801B Egg	21224	Cub	Columbus, GA	Egg	-	-	NQ
0106438 Dup	051801B Egg	21224	Cub	Columbus, GA	Egg	-	-	NQ
0106439	052101A Egg	21225	Bi-Lo	Cleveland, TN	Egg	-	-	NQ
0106439 Dup	052101A Egg	21225	Bi-Lo	Cleveland, TN	Egg	-	-	NQ
0106440	052101A Egg	21226	Save-a-Lot	Cleveland, TN	Egg	-	-	NQ
0106440 Dup	052101A Egg	21226	Save-a-Lot	Cleveland, TN	Egg	-	-	NQ
0106441	052101A Egg	21227	Albertson's	Pensacola, FL	Egg	-	-	NQ
0106441 Dup	052101A Egg	21227	Albertson's	Pensacola, FL	Egg	-	-	NQ
0106442	052101A Egg	21228	Food World	Pensacola, FL	Egg	-	-	NQ
0106442 Dup	052101A Egg	21228	Food World	Pensacola, FL	Egg	-	-	NQ

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

\$ = Sample labels fell off during second shipping and there was no way of telling samples apart.

Table II continued: Summary of PFOS, FOSA and PFOA Residues Found in Samples

Centre ID	Data Set No.	Sponsor ID	Store Name	Location	Matrix	Residue Found (ng/g)*		
						PFOS	FOSA	PFOA
0106443	052101A Egg	21229	Farmer's Market	Mobile, AL	Egg	-	-	NQ
0106443 Dup	052101A Egg	21229	Farmer's Market	Mobile, AL	Egg	-	-	NQ
0106444	052101B Egg	21230	Watson's	Cleveland, TN	Egg	-	-	NQ
0106444 Dup	052101B Egg	21230	Watson's	Cleveland, TN	Egg	-	-	NQ
0106445	052101B Egg	21231	Food World II	Pensacola, FL	Egg	-	-	NQ
0106445 Dup	052101B Egg	21231	Food World II	Pensacola, FL	Egg	-	-	NQ
0106446	052101B Egg	na	\$	\$	Egg	-	-	NQ
0106446 Dup	052101B Egg	na	\$	\$	Egg	-	-	NQ
0106447	052101B Egg	na	\$	\$	Egg	-	-	NQ
0106447 Dup	052101B Egg	na	\$	\$	Egg	-	-	NQ
0106448	052101B Egg	na	\$	\$	Egg	-	-	NQ
0106448 Dup	052101B Egg	na	\$	\$	Egg	-	-	NQ

NQ = Not Quantifiable. The residue detected, if any, was below the limit of the study which is 0.5 ng/g.

*Value is based on wet weight (5.0 g sample processed as received)

** Values rejected based on unacceptable recoveries. Data has been replaced with either reanalysis or re-extraction values.

^^ = Results rejected based on apparent contamination. Data has been replaced with re-extracted values.

- = Not analyzed for

\$ = Sample labels fell off during second shipping and there was no way of telling samples apart.